

MasterKure[®] 101

Acrylic Resin Based Evaporation Reducer for Concrete Surfaces

Material Description

MasterKure[®] 101 is an acrylic emulsion based evaporation reducer which is applied on freshly poured concrete to enable optimum strength by holding water inside the concrete with its film layer and reducing shrinkage by preventing rapid drying.

Areas of Application

- While curing vertical and horizontal structural elements
- High-rise concrete buildings for which water curing is hard.
- Airport and field concrete
- Channel and chute concrete
- Concrete pouring where humidity is low, evaporation and air flow is high.
- Surface hardening applications
- Surface to be coated with plaster, grout, paint, tiles and epoxy resins.

Characteristics and Benefits

- Enables hydration of cement by forming a film layer to hold the moisture in the concrete.
- A more efficient and economical method compared to similar cure methods like sack, burlap and watering.
- Enables harder and smoother surface.
- Reduces shrinkage cracks caused by rapid drying.
- All cement and resin based applications can be applied on cured surface.
- Suitable to use in closed areas.
- Easy to apply, reduces labor costs.
- MasterKure[®] 101 does not contain solvent.

Processing

MasterKure[®] 101 should be applied by homogenous spraying or by rolls on freshly poured concrete. MasterKure[®] 101 is applied on surface finished surfaces of field, road and slab concretes and surfaces of concrete placed in molds after demolding.

- MasterKure[®] 101 is suggested to spray on concrete surface to obtain a uniform structure.
- MasterKure[®] 101 should be applied as a thin layer with a roll. Forming of congestion has to be prevented by a balanced application of the material.
- Local color differences may occur as a result of heterogeneous application. These differences will vanish through the days.

Cleaning of Tools

Spraying devices and/or rolls used in the application should be cleaned by warm water. If the spray nozzle will be used again, then it is suggested to be left in water.

Dosage

MasterKure[®] 101 recommended coverage is 0,15 kg/m² - 0,30 kg/m². For cementitious dry shakes applications recommended coverage is 0,15 kg/m²- 0,20 kg/m². In open air and windy environments, MasterKure[®] 101's coverage can be increased 0,30 kg/m² for effective curing. Coverage is reduced in inner surfaces under shadow. **MBT Tech** Technical Service should be consulted for detailed information.

Technical Properties	
Structure of the Material	Styrene Acrylic Emulsion Based Copolymer
Apperance	White Liquid
Specific Gravity (20°C)	1.00 – 1.04 kg/lt
Finished Film Appearance	Transparent Opaque Layer
Drying Time ASTM C 309	~2 hours

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Packaging

MasterKure[®] 101 is available in 220 kg barrels and 30 kg cans.

Shelf Life

12 months if stored according to manufacturer's instructions in unopened container.

Storage

Store in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Health and Safety

For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

Contact

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